

Title: GRAPHICAL USER INTERFACE FOR NAVIGATION, VIEWING AND MAINTENANCE OF RECIPES

Inventors: Karen THEEL, Eddie OUMERRETANE, William G. STEARNS, Brad STOUTIMORE

Attorney Docket No.: ORCL-2000-165-01

Serial # 09/976,806

1/17



100

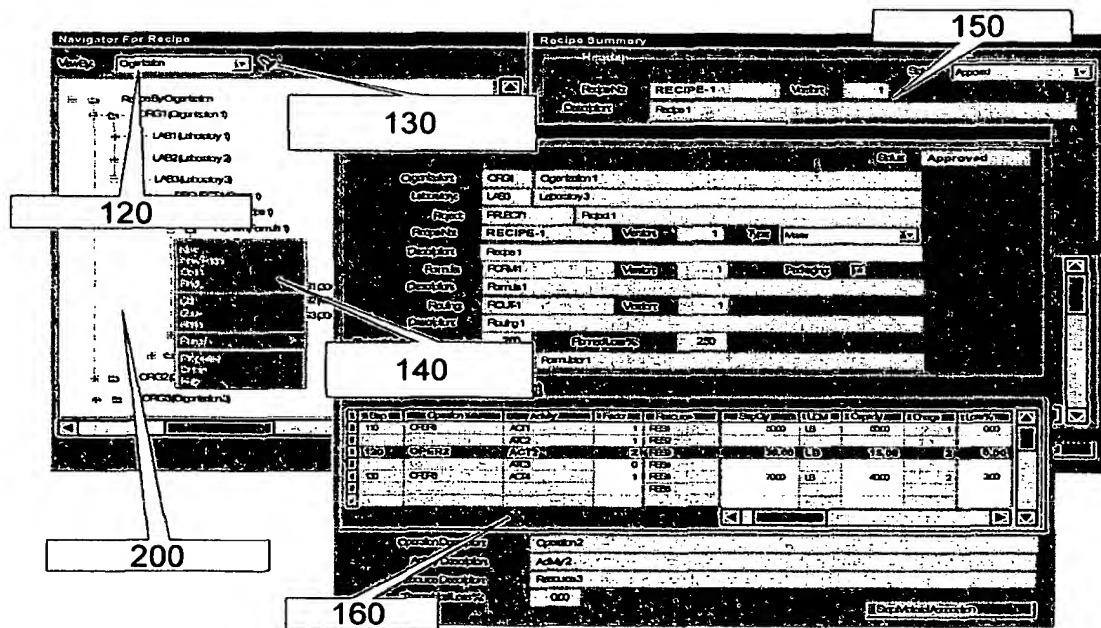


FIG. 1

+

2/17

200

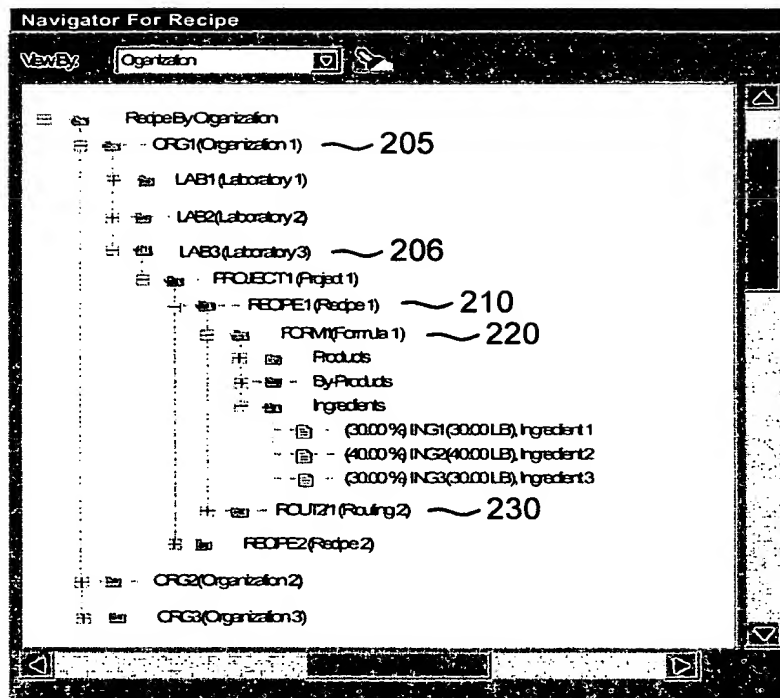


FIG. 2

3/17

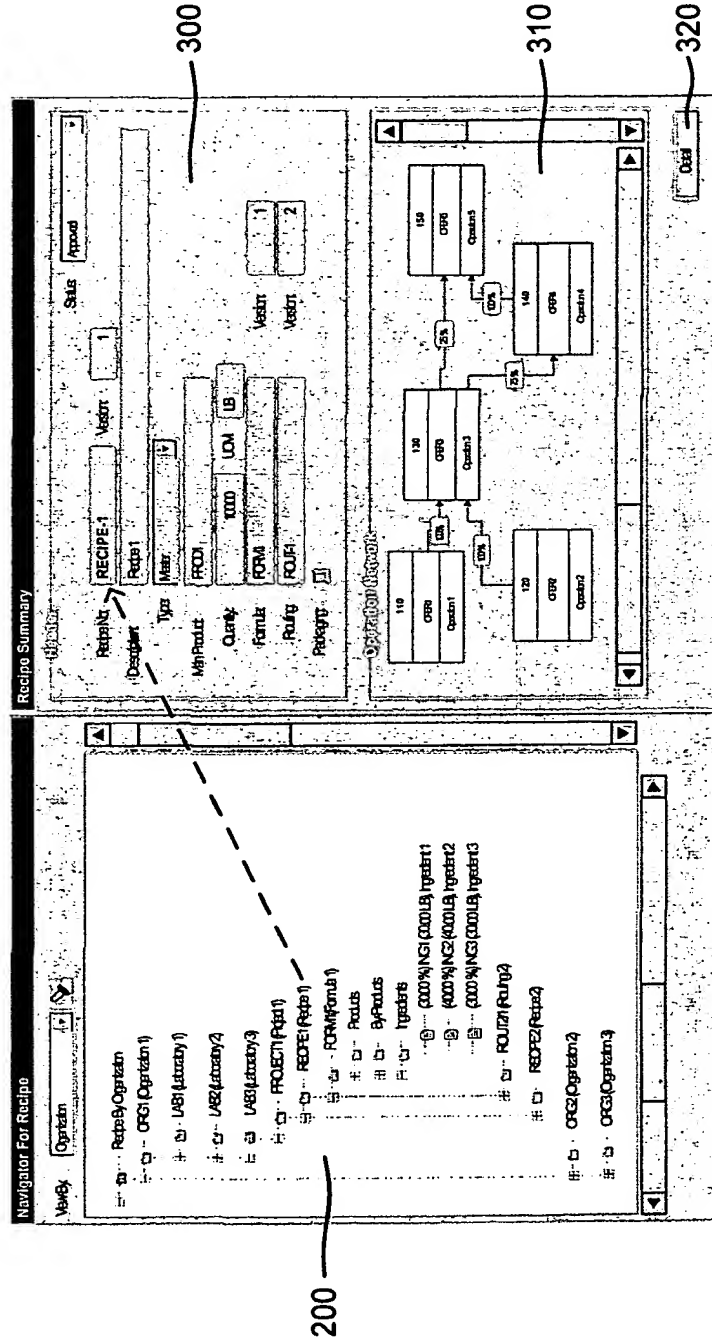


FIG. 3

4/17

400

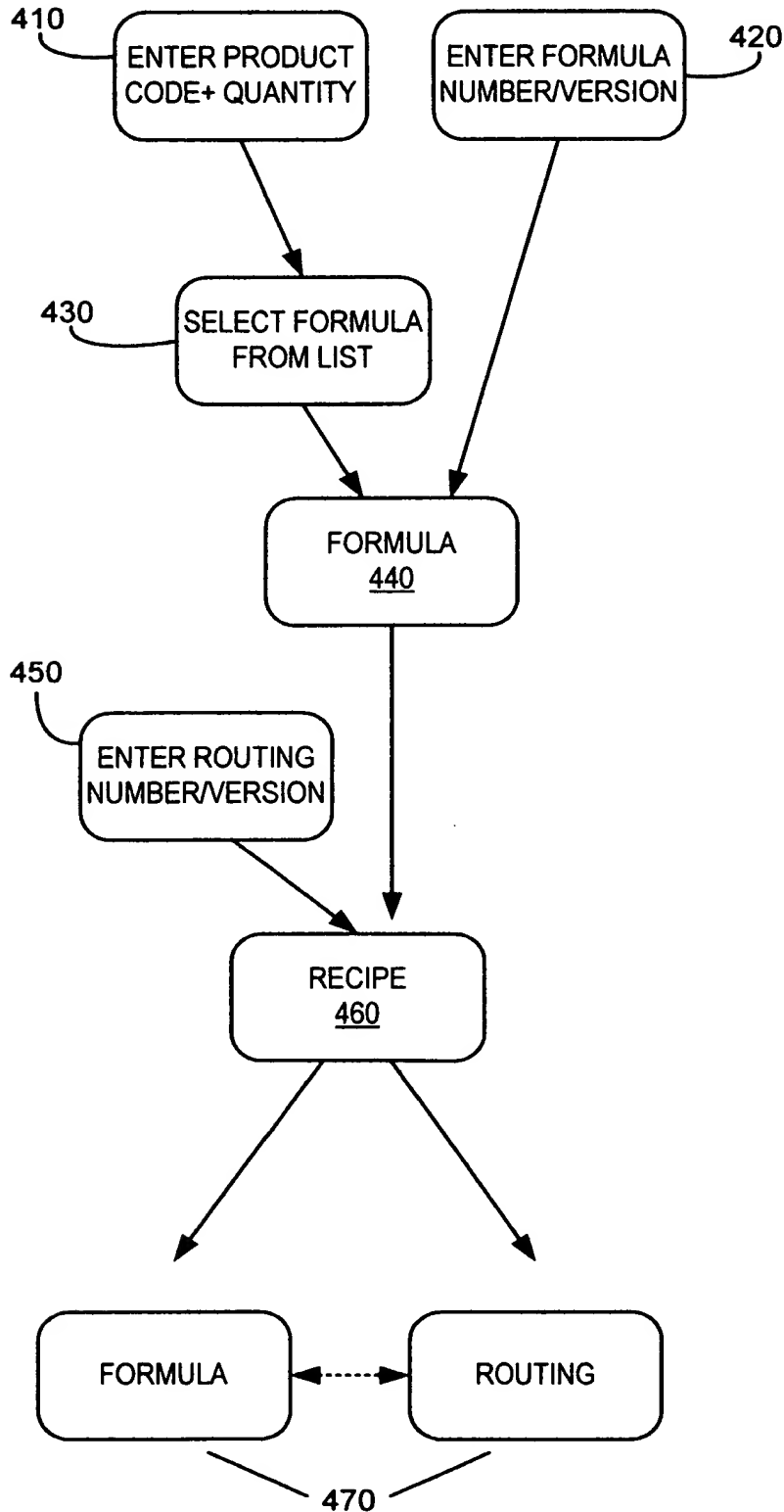


FIG. 4

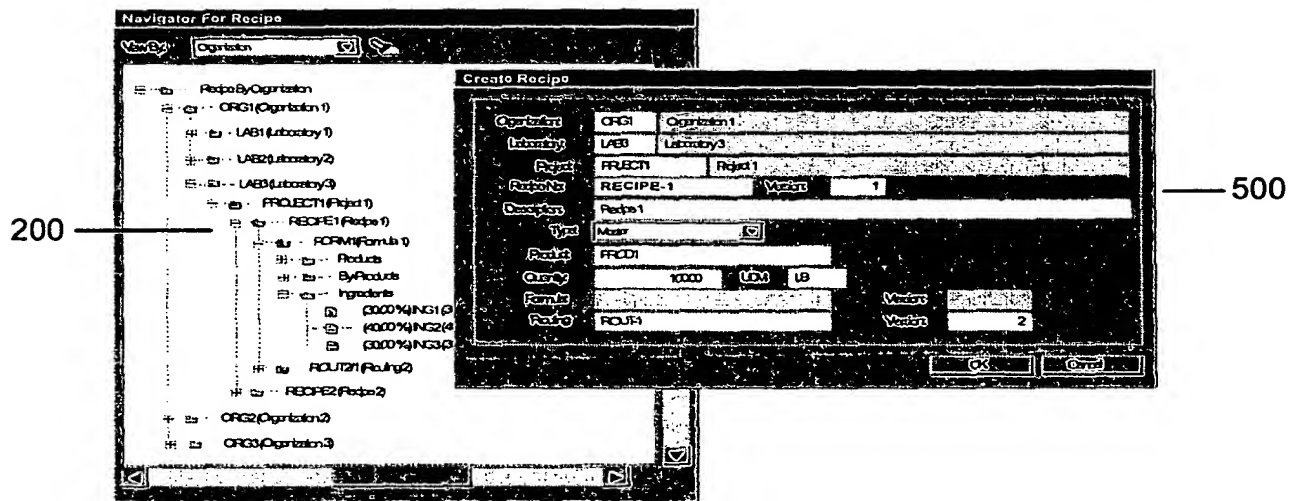


FIG. 5

6/17

600

**Recipe**

Header: Status: **Approved**

Organization: **CRGI** Organization: **Organization 1**

Laboratory: **LAB3** Laboratory: **Laboratory 3**

Project: **PROJECT1** Project: **Project 1**

Recipe No: **RECIPE-1** Version: **1** Type: **Master**

Description: **Recipe 1**

Formula: **FORM1** Version: **1** Packaging: ☐

Description: **Formula 1**

Routing: **ROUT1** Version: **1**

Description: **Routing 1**

Theoretical Loss %: **200** Penned Loss %: **250**

Owner: **FORD** Formula: **Formulation 1**

Step Quantity: **700A**

Step	Operation	Activity	Factor	Resource	Step Qty	UDM	Capacity	Change	Loss %
110	OPER1	ACT1	1	RES1	5000	LB	5000	1	0.00
		ACT2	1	RES2					
120	OPER2	ACT2	2	RES3	30.00	LB	15.00	2	0.00
		ACT3	0	RES4					
130	OPER3	ACT4	1	RES5	7000	LB	4000	2	300
				RES6					

Operation Description: **Operation 2**

Activity Description: **Activity 2**

Resource Description: **Resource 3**

Theoretical Loss %: **0.00**

Step Material Association

FIG. 6

7/17

700

Recipe

Monitor

Status: Approved

Organization: ORG1 Organization1

Laboratory: LAB3 Laboratory3

Project: PROJECT1 Project1

Recipe No: RECIPE-1 Version: 1 Type: Master

Description: Recipe1

Formula: FORM1 Version: 1 Packaging: ☐

Description: Formula1

Routing: ROUT1 Version: 1

Description: Routing1

Theoretical Loss %: 200 Planned Loss %: 250

Owner: FOR1 Formulation1

600A

700A

Step	Operation	Activity	Factor	Resource	Unit	Count	Process Qty	LOM	Usage	LOM
110	OPER1	ACT1	1	RES1	Nb	1	5000	LB	100	Mh
		ACT2	1	RES2	Nb	1	5000	LB	200	Mh
120	OPER2	ACT2	2	RES3	Nb	1	15.00	LB	2.00	Mh
		ACT3	0	RES4	Nb	1	3000	LB	300	Mh
130	OPER3	ACT4	1	RES5	Nb	1	4000	LB	200	Mh
				RES6	Nb	1	2000	LB	300	Mh

710

Operation Description: Operation2

Activity Description: Activity2

Resource Description: Resource3

Theoretical Loss %: 000

640

630

Step Material Association

FIG. 7

8/17

800

**Operation Step/Material Association**

**Header**

Status: **Approved**

Organization: **ORG1** Organization1

Laboratory: **LAB3** Laboratory3

Project: **PROJECT1** Project1

Recipe No: **RECIPE-1** Version: **1** Type: **Master**

Description: **Recipe1**

Formula: **FORM1** Version: **1** Packaging: ☐

Description: **Formula1**

Routing: **ROUT1** Version: **1**

Description: **Routing1**

Theoretical Loss %: **200** Planned Loss %: **250**

Owner: **FOR1** Formulator1

**Routing Details**

Seq	Operation	Description	SeqQty	UDM
110	OPER1	Operation1	5000	LB
120	OPER2	Operation2	3000	LB
130	OPER3	Operation3	7000	LB

**810**

**820**

**840A**

**840B**

Line	Seq	Item	Description	Quantity	UDM
1	110	NG1	Ingredient1	1000	LB
2	110	NG2	Ingredient2	2000	LB
3	120	NG1	Ingredient3	1500	LB
4	130	NG3	Ingredient3	500	LB

**830**

FIG. 8



9/17

900

Validity Rules Selection

Header

Recipe Number:	RECEI
Recipe Desc:	Recipe1
Formula Number:	FORM1
Formula Desc:	Formula1
Product:	Product1
Product Quantity:	20000 LB

Validity Rules

Formula	Ref	StQty	MhQty	MxQty	Validation	ValidTo
Production	1	20000	000	30000	Q2MFR2000	Q2MFR2000
Costing	2	10000	000	25000	Q2MFR2000	Q2MFR2000

320

FIG. 9

10/17

1000

Validity Rules

Recipe: [RECIPE] Recipe 1: [ ] Product: [ ] Product 1: [ ] Serialized Quantity: 20000 LB

Quantity Range: 000 LB Minimum Quantity: 30000 LB Maximum Quantity: LB

Date Range: From Date: 02/11/2000 To Date: 02/11/2001

Customers: Customer Name Customer 1

FIG. 10

11/17

1100

The image displays a graphical user interface with two overlapping windows. The top window, labeled 1110, is titled 'Recipe Type' and contains a table with columns 'Type' and 'Description'. The bottom window, labeled 1120, is titled 'Routing Type Association' and contains a table with columns 'Type' and 'Description'.

**Recipe Type (1110)**

Type	Description
RECMASTER	Master Recipe
RECRESITE	Site Recipe
RECGENERAL	General Recipe

**Routing Type Association (1120)**

Type	Description
ROUTSITE1	Site Routing 1
ROUTSITE2	Site Routing 2

FIG. 11

12/17

1200

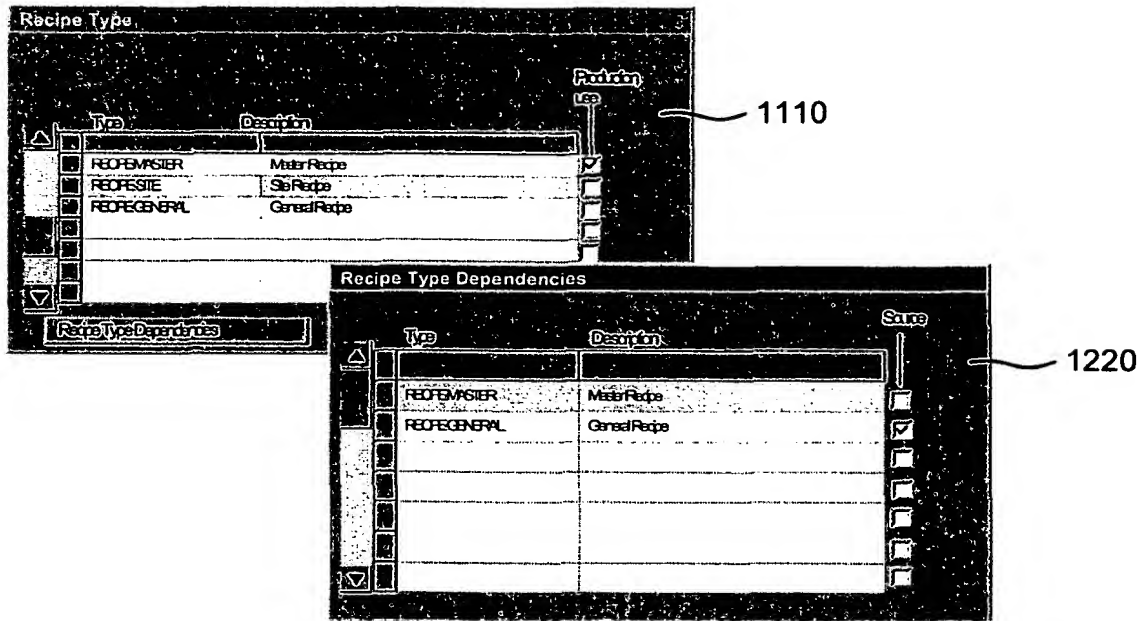


FIG. 12

1300

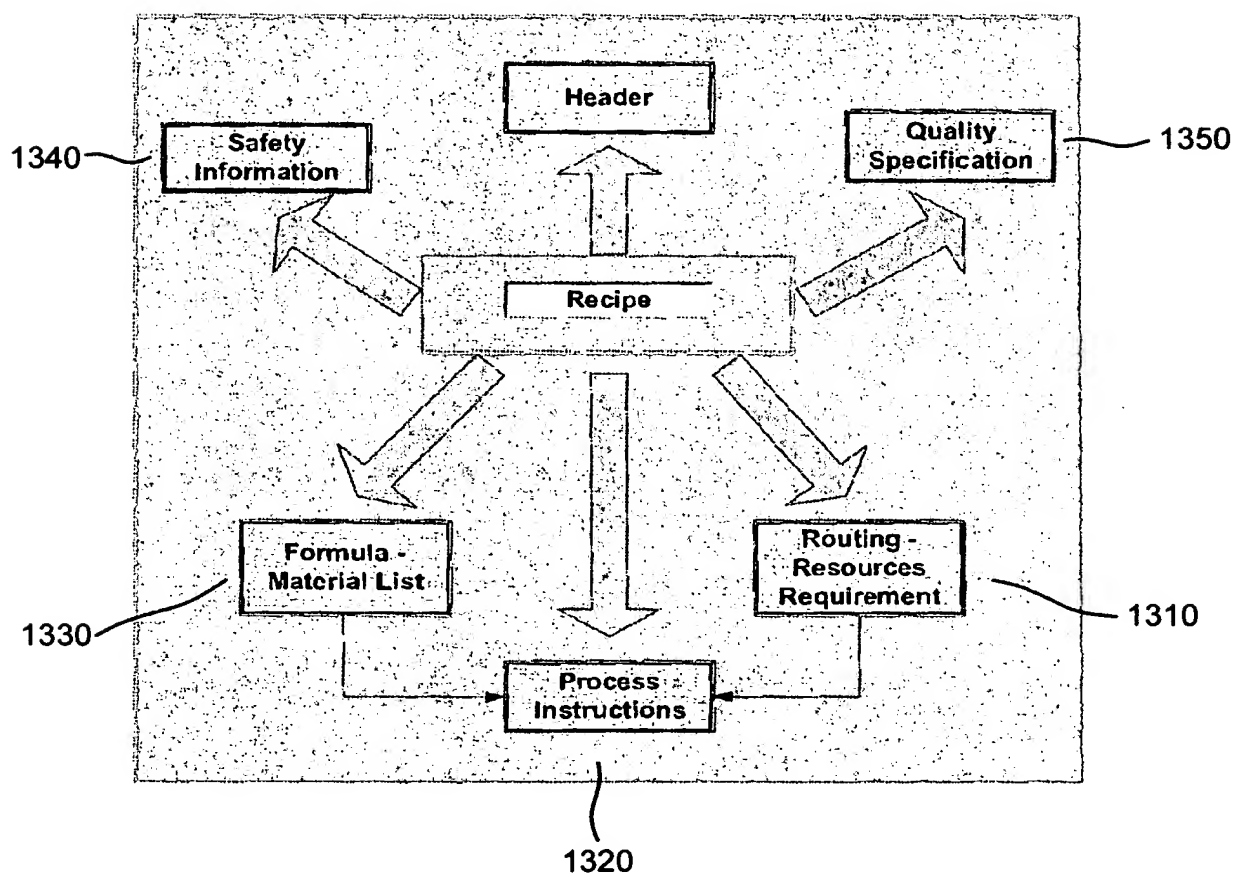


FIG. 13

1400

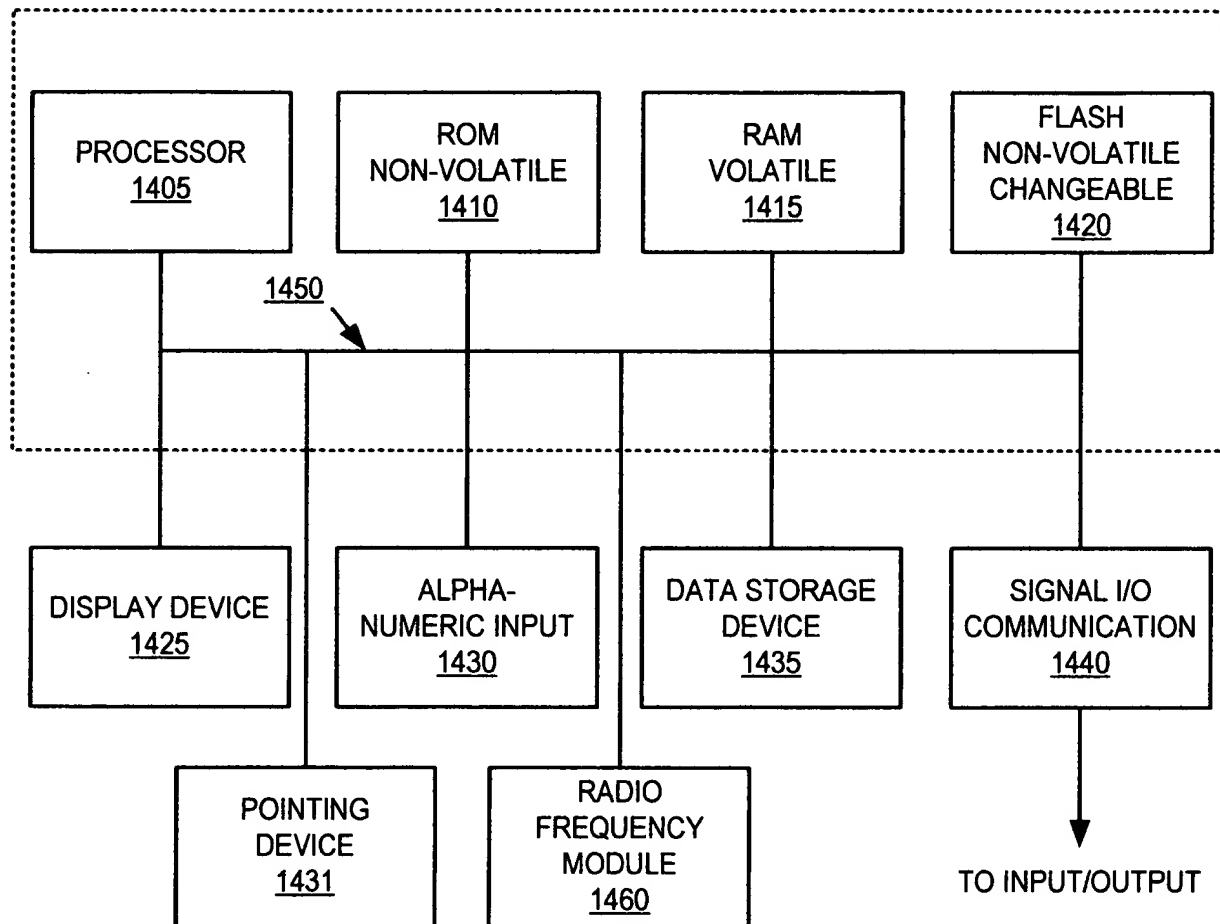


FIG. 14

1500

1510

1520

1530

1540

1550

200

Navigator For Formulas

View By: Organization

- Formula By Organization
  - ORG1 (Organization 1)
    - + LAB1 (Laboratory 1)
    - + LAB2 (Laboratory 2)
    - + LAB3 (Laboratory 3)
    - PROJECT1 (Project 1)
      - FORM1 (Formula 1)
        - Production Use
          - + Products
          - + By-Products
          - + Ingredients
            - ING1 (30.00 %) ING2 (40.00 LB), Ingredient 1
            - ING2 (40.00 %) ING3 (25.00 LB), Ingredient 2
            - ING3 (25.00 %) INTER1 (5.00 LB), Intermediate
            - FORM-INTER1 (Formula for INTER1)
              - + Products
              - + By-Products
              - + Ingredients
          - + FORM2 (Formula 2)
          - + FORM3 (Formula 3)
        - + ORG2 (Organization 2)

Formula Summary

Status: Approved

Formula No: FORM1 Vant: 1

Description: Formula 1

Laboratory: LAB3 Laboratory 3

Main Product: MAINPROD Main product for formula FORM1

Quantity: 100.00 LB

Owner: FORMU1 Formulator 1

Substitutes

Line	Ingredient	Description	Quantity	UCM	Cost %
1	ING1	Ingredient 1	30.00 LB	30.00	30.00
2	ING2	Ingredient 2	40.00 LB	40.00	40.00
3	ING3	Ingredient 3	30.00 LB	30.00	30.00

Summary

Validity Rules: Technical parameters

Details:

FIG. 15

1600

**Navigator For Formula**

View By: **Organization**

- Formula By Organization
  - + ORG1 (Organization 1)
    - + LAB1 (Laboratory 1)
    - + LAB2 (Laboratory 2)
    - + LAB3 (Laboratory 3)
    - + PROJECT1 (Project 1)
      - FORM11/(Formula 1)
        - + Products
        - + By-Products
        - + Ingredients
          - ING1 (30.00 %) ING1 (30.00 LB), Ingredient 1
          - ING2 (40.00 %) ING2 (40.00 LB), Ingredient 2
          - ING3 (25.00 %) ING3 (25.00 LB), Ingredient 3
          - INTER1 (5.00 LB), Intermediate 1
          - FORM-INTER12/(Formula for INTER1)
            - + Products
            - + By-Products
            - + Ingredients
  - + ORG2 (Organization 2)

**Formula Detail**

Formula No: FORM1      Vers: 1      Status: Approved

Laboratory: LAB3      Laboratory 3

Description: Formula 1

Comments:

Formula Class:

Owner: FORMU1      Formulator 1

☒ Packaging

☒ Active    ☒ Scaling Allowed

Product: **By Product**    Ingredient

Seq	Product	Description	Quantity	UOM
1	PROD1	Product 1	100.00	LB

Phantom Type: **Not a Phantom**      Scrap Factor: 0

Scale Type: **Linear Scaling**      Cost Allocation: 1.0

Release Type: **Automatic**

Validity Rules      Details

FIG. 16



FIG. 17